?200.0J080

PATENT COOPERATION TREAT



From the INTERNATIONAL SEARCHING AUTHORITY

EXXONMOBIL RESEARCH AND ENGINEERING COMPANY Attn. Simon, Jay P.O.Box 900/1545 Route 22 East New Jersey 08801-0900 UNITED STATES OF AMERICA

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference

FOR FURTHER ACTION US 09/653719

See paragraphs 1 and 4 below

International application No. PCT/US 01/24407

International filing date (day/month/year) 03/08/2001

Date of mailing (day/month/year)

01/03/2002

Applicant

EXXONMOBIL RESEARCH AND ENGINEERING COMPANY

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1.	\mathbf{X}	The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.						
		Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):						
		When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.						
		Where?	Directly to the	International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35				
For more detailed instructions, see the notes on the accompanying sheet.								
2.		The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.						
3.		With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:						
		the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.						
		no c	decision has bee	en made yet on the protest; the applicant will be notified as soon as a decision is made.				
4.	Furth	her action(s): The applicant is reminded of the following:						
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the								

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

completion of the technical preparations for international publication.

Authorized officer

Trudy Thoen-de Jong

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international pbulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (c. ntinued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- (Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims):
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under ... Article 19(1)).

The statement will be published with the international application and the amended claims.

it must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bursau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.									
US 09/653719	ACTION									
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)								
PCT/US 01/24407	03/08/2001	01/09/2000								
Applicant										
	MATALEBIANC COMBANIV									
EXXONMOBIL RESEARCH AND ENGINEERING COMPANY										
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth ansmitted to the International Bureau.	nority and is transmitted to the applicant								
This International Search Report consists X It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	report.								
Basis of the report										
 With regard to the language, the language in which it was filed, unli 	international search was carried out on the bas ess otherwise indicated under this item.	sis of the international application in the								
the international search was Authority (Rule 23.1(b)).	as carried out on the basis of a translation of the	he international application furnished to this								
b. With regard to any nucleotide and		nternational application, the international search								
was carried out on the basis of the contained in the internatio	e sequence listing : nal application in written form,									
<u></u>	rnational application in computer readable form	n.								
furnished subsequently to	this Authority in written form.									
furnished subsequently to	this Authority in computer readble form.									
the statement that the sub international application as	sequently furnished written sequence listing do s filed has been furnished.	oes not go beyond the disclosure in the								
		s identical to the written sequence listing has been								
2. Certain claims were four	nd unsearchable (See Box I).									
3. Unity of invention is lack	ring (see Box II).									
4. With regard to the title,		•								
X the text is approved as sul	bmitted by the applicant.									
<u> </u>	hed by this Authority to read as follows:									
5. With regard to the abstract,										
the text is approved as sut	hed, according to Rule 38.2(b), by this Authorit	ty as it appears in Box III. The applicant may,								
	date of mailing of this international search rep	ort, submit comments to this Authority.								
6. The figure of the drawings to be publicated by the applies		None of the figures.								
as suggested by the applic because the applicant falle		Notic of the lighteet.								
because this figure better characterizes the invention.										

Form PCT/ISA/210 (first sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International Application No PCT/US 01/24407

A. CLASS IPC 7	BOIJ25/00 C10G2/00	-						
According	to International Patent Classification (IPC) or to both national classi	fication and IPC						
B. FIELDS	SEARCHED							
Minimum documentation searched (classification system followed by classification symbols) IPC 7 B01J C10G								
Documenta	ation searched other than minimum documentation to the extent that	al such documents are included in the fields se	earched					
Electronic	data base consulted during the international search (name of data	base and, where practical, search terms used)					
EPO-Ir	nternal							
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT							
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.					
Х	GB 2 117 400 A (ALLOY SURFACES (12 October 1983 (1983-10-12) claims 6.8	CO INC)	1,7,14					
Y			18					
Υ	WO 00 27525 A (DU PONT) 18 May 2000 (2000-05-18) claim 1		18					
A	US 4 176 092 A (HAYDN JOSEF ET 27 November 1979 (1979-11-27)	AL)	•					
A	DE 25 30 818 A (BASF AG) 27 January 1977 (1977-01-27)							
			·					
Furth	ner documents are listed in the continuation of box C.	Patent family members are listed in	о аппех.					
T later document published after the international filing date or priority date and not in conflict with the application but did not understand the priority date and not in conflict with the application but the priority date and not in conflict with the application but the priority date and not in conflict with the application but the priority date and not in conflict with the application but the priority date and not in conflict with the application but the priority date and not inconflic								
consider d "E" earlier d filing da	ered to be of particular relevance ocument but published on or after the international ate	cited to understand the principle or the invention "X" document of particular relevance; the clauding cannot be considered novel or cannot to the considered novel or cannot the considered novel or cannot be considered	almed invention					
which i citation	nt which may throw doubts on priority claim(s) or s cited to establish the publication date of another or other special reason (as specified)	involve an inventive step when the doc "Y" document of particular relevance; the cit cannot be considered to involve an invention.	ument is taken alone aimed invention entive step when the					
other n	nt referring to an oral disclosure, use, exhibition or neans nt published prior to the international filling date but an the priority date claimed	document is combined with one or mor ments, such combination being obvious in the art. *&* document member of the same patent fa	s to a person skilled					
	actual completion of the international search	Date of mailing of the international sear						
	February 2002	01/03/2002						
Name and m	ailing address of the ISA European Palent Office, P.B. 5818 Patentlaan 2	Authorized officer						
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Thion, M	i					

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US 01/24407

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
GB 2117400	A	12-10-1983	US	4443557 A	17-04-1984
db .2111 100	• '		CA	1178261 A1	20-11-1984
			DE	3233769 A1	22-09-1983
			FR	2523476 A1	23-09-1983
			ΙL	66770 A	31-12-1985
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			JP	58163442 A	28-09-1983
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			CN	1325321 T	05-12-2001
			EP	1135208 A1	26-09-2001
			WO	0027525 A1	18-05-2000
US 4176092	Α	27-11-1979	DE	2713373 A1	05-10-1978
00 /1/0052	••		BE	865272 A1	25-09-1978
			DD	136798 A5	01-08-1979
			ES	468138 A1	16 - 01-1979
			FR	2384543 A1	20-10-1978
			GB	1558337 A	19-12-1979
			JP	53119290 A	18-10-1978
			NL	7803091 A	27-09-1978
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